(I) Answer the questions about a beam with bents at right angle in the x-y plane
　　receiving a load in the z direction, P at the point D
　　as shown in Fig. 1. (25 points)
　　(1) Determine the displacement in the z direction at the point B, δ_B.
　　(2) Determine the displacement in the z direction at the point D, δ_D.

E: Young's modulus
G: Shear modulus
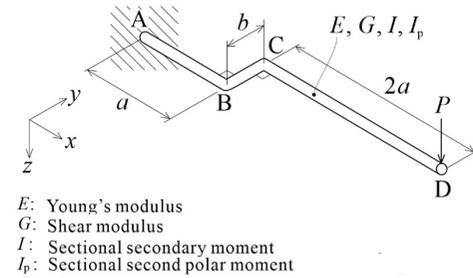I: Sectional secondary moment
I_p: Sectional second polar moment

Fig. 1

(II) Regarding the equilateral triangular truss receiving a load, P, at the point A,
which is shown in Fig. 2, determine the displacements of the point A
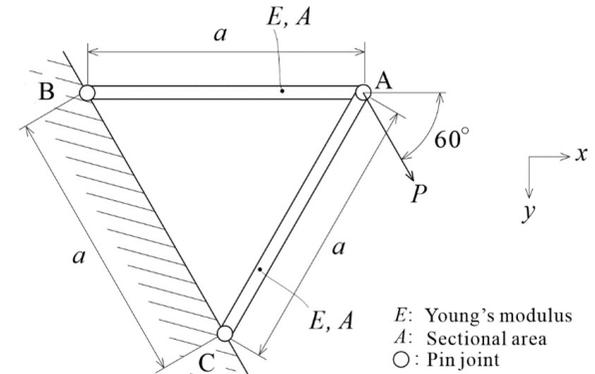in the x direction, δ_{Ax}, and the y direction, δ_{Ay} (25 points).

E: Young's modulus
A: Sectional area
○: Pin joint

Fig.2